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1   Multimedia index and retrieval under MARC framework

Wenying Wendy Gao, Jesse S. Jin
May 2003   VIP '02: Selected papers from the 2002 Pan-Sydney workshop on Visualisation - Volume 22,   Volume 22
Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(325.35 KB)   Additional Information: full citation, abstract, references, index terms

Information retrieval is the indexing and retrieving of data that match criteria specified by users. In today's age, the proliferation of multimedia information makes it necessary to revolutionise traditional type of information retrieval systems. Content ...

2 Fast image retrieval using color-spatial information

Beng Chin Ooi, Kian-Lee Tan, Tat Seng Chua, Wynne Hsu
May 1998   The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(496.55 KB)   Additional Information: full citation, abstract, references, cited by, index terms

In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous ...

Keywords: Color-spatial information, Content-based retrieval, Sequenced multi-attribute tree, Single-colored cluster

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997   CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

4 A search engine for 3D models

Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs
January 2003   ACM Transactions on Graphics (TOG), Volume 22 Issue 1
Publisher: ACM

Full text available: pdf(7.91 MB)   Additional Information: full citation, abstract, references, cited by, index terms

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

5 Time-machine computing: a time-centric approach for the information environment

Jun Rekimoto
November 1999   UIST '99: Proceedings of the 12th annual ACM symposium on User interface software and technology
Publisher: ACM

Full text available: pdf(863.69 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper describes the concept of Time-Machine Computing (TMC), a time-centric approach to organizing information on computers. A system based on Time-Machine Computing allows a user to visit the past and the future states of computers. ...

Keywords: desktop environment, document management, information visualization, inter-application communication, time traveling, time-machine computing

6 WEST: a Web browser for small terminals

Staffan Björk, Lars Erik Holmquist, Johan Redström, Ivan Bretan, Rolf Danielsson, Jussi Karlgren, Kristofer Franzén
November 1999   UIST '99: Proceedings of the 12th annual ACM symposium on User interface software and technology
Publisher: ACM

Full text available: pdf(173.07 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We describe WEST, a WEb browser for Small Terminals, that aims to solve some of the problems associated with accessing web pages on hand-held devices. Through a novel combination of text reduction and focus+context visualization, users can access web ...

Keywords: WAP (wireless application protocol), flip zooming, focus+context visualization, hand-held devices, proxy systems, text reduction, web browser

7 An ethnographic study of music information seeking: implications for the design of a music digital library

Sally Jo Cunningham, Nina Reeves, Matthew Britland
May 2003   JCDL '03: Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries
Publisher: IEEE Computer Society

Full text available: pdf(156.59 KB)   Additional Information: full citation, abstract, references, cited by, index terms

At present, music digital library systems are being developed based on anecdotal evidence of user needs, intuitive feelings for user information seeking behavior, and a priori assumptions of typical usage scenarios. Emphasis has been placed on basic ...

8 Visual and spatial communication and task organization using the visual knowledge builder

Frank Shipman, Robert Airhart, Haowei Hsieh, Preetam Maloor, J. Michael Moore, Divya Shah

September 2001   GROUP '01: Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work

Publisher: ACM

Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, cited by, index terms

When people share a workspace, they naturally create visual structures which organize resources, communicate interpretations, and coordinate activities. To support this mode of communication and coordination we have built the Visual Knowledge Builder ...

Keywords: collaborative writing, emergent structure, information workspace, magnetic poetry, navigable history, spatial parser, visual communication, visual language

9 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004   ACM Computing Surveys (CSUR), Volume 36 Issue 1

Publisher: ACM

Full text available: pdf(294.13 KB)   Additional Information: full citation, abstract, references, cited by, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

10 A document corpus browser for in-depth reading

Eric Bier, Lance Good, Kris Popat, Alan Newberger
June   JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital
2004   libraries
Publisher: ACM

Full text available: pdf(164.61 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Software tools, including Web browsers, e-books, electronic document formats, search engines, and digital libraries are changing the way people read, making it easier for them to find and view documents. However, while these tools provide significant ...

Keywords: bookplex, computer-aided reading, digital library, document management, spatial memory, visualization, zoomable user interface

11 Intellectual property aspects of web publishing

Holger M. Kienle, Daniel German, Scott Tilley, Hausi A. Müller
October   SIGDOC '04: Proceedings of the 22nd annual international conference on
2004   Design of communication: The engineering of quality documentation
Publisher: ACM

Full text available: pdf(153.91 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper addresses how intellectual property affects the Web in general, and content publishing on the Web in particular. Before its commercialization, the Web was perceived as being free and unregulated; this assumption is no longer true. Nowadays, ...

Keywords: copyright, hypermedia, intellectual property, link law, open content, patents, trademarks, world wide web

12 Greenstone: a comprehensive open-source digital library software system

Ian H. Witten, Stefan J. Boddie, David Bainbridge, Rodger J. McNab
June   DL '00: Proceedings of the fifth ACM conference on Digital libraries
2000
Publisher: ACM

Full text available: pdf(303.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper describes the Greenstone digital library software, a comprehensive, open-source system for the construction and presentation of information collections. Collections built with Greenstone offer effective full-text searching and metadata-based ...

13 The parks PDA: a handheld device for theme park guests in squeak

Yoshiki Ohshima, John Maloney, Andy Ogden

October   OOPSLA '03: Companion of the 18th annual ACM SIGPLAN conference on
2003   Object-oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: 📄 pdf(488.82 KB)   Additional Information: full citation, abstract, references, index terms

The Parks PDA is a lightweight, handheld device for theme park guests that functions as a combination guidebook, map, and digital camera. Together with a small team of artists and designers, we created a prototype Parks PDA and content for a three hour ...

Keywords: PDA, development environment, end-user software, handheld device, multimedia data management, rapid software development

14 Object-based navigation: an intuitive navigation style for content-oriented integration environment

Kyoji Hirata, Sougata Mukherjea, Yusaku Okamura, Wen-Syan Li, Yoshinori Hara

April   HYPERTEXT '97: Proceedings of the eighth ACM conference on Hypertext
1997

Publisher: ACM

Full text available: 📄 pdf(1.29 MB)   Additional Information: full citation, references, cited by, index terms

Keywords: COIR, World-Wide Web, content-oriented integration, object-based navigation, object-level integration, relationship among objects

15 Visual information retrieval from large distributed online repositories

Shih-Fu Chang, John R. Smith, Mandis Beigi, Ana Benitez

December   Communications of the ACM,   Volume 40 Issue 12
1997

Publisher: ACM

Full text available: 📄 pdf(1.96 MB)   Additional Information: full citation, references, cited by, index terms

16 Passive capture and ensuing issues for a personal lifetime store

Jim Gemmell, Lyndsay Williams, Ken Wood, Roger Lueder, Gordon Bell
October   CARPE'04: Proceedings of the the 1st ACM workshop on Continuous
2004   archival and retrieval of personal experiences
Publisher: ACM

Full text available: pdf(1.05   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Passive capture lets people record their experiences without having to operate
recording equipment, and without even having to give recording conscious thought.
The advantages are increased capture, and improved participation in the event itself.
However, ...

Keywords: MyLifeBits, SenseCam, database, multimedia, photo

17 A personal digital store

Gordon Bell
January 2001   Communications of the ACM,   Volume 44 Issue 1
Publisher: ACM

Full text available: pdf(289.88 KB) html(33.91   Additional Information: full citation, references,
KB)   cited by, index terms

18 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM

Full text available: pdf(12.56   Additional Information: full citation, abstract
MB)

Large repositories of 3D data are rapidly becoming available in several fields,
including mechanical CAD, molecular biology, and computer graphics. As the number
of 3D models grows, there is an increasing need for computer algorithms to help
people find ...

19 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

Full text available: pdf(6.94 MB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keywords: HTML, WWW, application, development, intranet, modeling

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